2007-09-24 [58049-00035] Sequence Listing.ST25 SEQUENCE LISTING

<110> Korea Research Institute of Bioscience and Biotechnology <120> MULTIPLE STRESS-INDUCIBLE PEROXIDASE PROMOTER DERIVED FROM IPOMOEA BATATAS <130> 58049-00035 <140> 10/597,945 <141> 2006-08-11 <160> 30 <170> PatentIn version 3.3 <210> 1 <211> 3945 <212> DNA <213> Ipomoea batatas <400> cctcatggag tattctcata actctcttca gtatgaatga atcatacaat acaacqcaqc 60 qacqaataqa cttcqccctq aactaqacat acqacaacat aqccaccata cqqqaaaqqc 120 acttcaaqct ctttatcccq taqqctqcaa caacataacq acataacqac cactqqqcaa 180 gggcatttac agccacccgt gggtcaatca aggtcctcct cactcacttt agaaactaag 240 qqtttqaaaa catqatcttt ccttcaqttt ttcttacaac aaatcattca ctttqqacac 300 atttcacaat tgagtccaat acttaaaccg gctacttcat tagcccctga aggattttaa 360 aaaaaacttt cactqcccqc aqqctcttca aacatctttt cctcattatc aaqtqaqqca 420 ttttcctcaa aagtaaggtt ttgacaacct ttatatcaaa atagcatacg tttttcaacg 480 taaqtttcat aacatttact tqccatctca ccacttcqtc ttaaacaatc taqqatattc 540 ttaqatattc ttcatactca aqtctcacac ttqaaatcaa tcaaqactct tacactaaca 600 attecteaat ataceteata atateatete taettaaaet agagagattt eeaaetetea 660 attaatcacc aaaggtaact ctccaaatat ccaaatggaa ggtttcaact tccaaactaa 720 taccaaacca accggactaa tcataatcat attcataatc ataaattgtt tctaactgcc 780 cctqtccaqa aattacaqtt ttqcqcaqtc cqaaaqattq aqccqqtaac aataqttccc 840 gaactetttt teaettgaaa tttttatggt agaaccetaa ettatagtae ttgatateea 900 taaaaagttt tggtcaccta ggttcacgaa ttaacacaga aaattacatc tttgcccttg 960 gcagtgggct gtccggaatt ctgtctctct ggaccagttt tggcaaacaa ttttgaaacc 1020 acacttatac tactccaaaa attatqaaat ttttatqqta qcttctacac ttataqaact 1080 acatgtataa aaaatattgg gtcaaaatac cttaccgatt tttcccaaat attcacggaa 1140 cttactgcca gaatctaccc tgctttttcc tttcactatt ttcacaacta taagcatata 1200 tgggcataaa tatgacatga acatgcatga accaatgcag ggtgaaagta agattgaata 1260

Page 1

	200	07-09-24 [58	3049-00035]	Sequence Li	isting.ST25	
tactgatact	acaattaact	aatgataaag	tataactttt	gtaaaaaatt	tgatttttt	1320
ttttgatgaa	ttcatatact	ccaaagattt	tcctcattta	attaaatttc	tatcctcatg	1380
ttgaacccat	taatcgaata	attgacatat	tagataaact	tagccatcat	atgacatttg	1440
atcatgattg	atgattttta	aaaaataaaa	acaaaattat	gaaagggtaa	tgaaatattt	1500
taaaaaaatt	atgtaaaccc	tgtaatctag	taatctgtac	aataataatt	ttgtttcaac	1560
taagaggatg	ttggcaaaag	tataattaaa	cttgtgatct	tcgtacaata	attatgcttc	1620
acgcactcaa	ctagtcacat	ctttccaggc	aaaatttact	tttctatgaa	tatgagaagt	1680
tccatctatg	gaaataacgg	attatttatc	taattttcaa	attctatata	tatagtctcg	1740
agtggaacaa	aaatagaact	aatttgaaca	aatcaaagtc	taagaaaata	atacatgctt	1800
tagcagcaaa	aataagaatg	gtactatact	taatcctcat	catagtcttc	aaccctgcat	1860
atagcacact	taacatttta	tattcaaata	tactttaatt	tagtcatgat	aatacaactc	1920
acctactcca	ttatagccga	taatacaact	cacctagcta	ctccattata	gtccaacaat	1980
atcaaatgaa	taaaatagta	atggtgactt	aaagggctga	atccaacata	tattctgaca	2040
tttaaaaatg	ctaacgtacg	gttagattag	tataatgaaa	taaagttaat	cattctctat	2100
atttgatgat	ggtaattagt	atcatggtaa	ggtgttttat	cgtggcagca	tgagtgcatg	2160
acaaacgcat	atattattat	taaaacaaaa	tagtactcca	atcataataa	attatcttat	2220
attatattgc	caacaattaa	aaattcaaat	tagaacaaat	taaatctcag	tttgctttat	2280
tatattatta	tcaacaataa	taatttaata	ctgatcgaag	aactttccct	ttcaagttct	2340
ctatttaagg	aagcctgaga	agccattaat	cctcatcatc	agctcgacca	ctcatttctt	2400
cttcatactt	cctttgctgt	gataatcatc	atcatggctt	cctttgtcac	tcggctcagc	2460
ctggccctta	gcttcatcgc	cctagcccta	gctggcttct	ccatttacca	gaatacccat	2520
acagccatga	aagggcagct	taagctcacc	ccaaagtggc	tgctagacaa	cactctagag	2580
tcgtcagtgg	ccgacgtgct	ctcactacgc	ctaggcatct	cctccggcaa	gctttccgac	2640
gaagactgca	tattctccgc	cgttaaggaa	gtggtggacg	ccgccattga	tgcagaaacc	2700
cgcatgggtg	cttccctcat	tegeetette	ttccatgact	gctttgttga	tgtacgtacg	2760
ctaattttgt	acgatgatgt	tttttttt	tttttttt	ttcccactgc	attatattag	2820
gaaattaaac	agattgaaat	gtgtgttatt	aatgtattat	ctgcagggtt	gtgacgcagg	2880
tcttctacta	aacgatacac	ctactttcac	cggagaacag	accgccggcg	gcaataataa	2940
ctcagtcaga	ggttttgagg	tgatacaaca	agctaaagag	aatgtgataa	ccaaatgtcc	3000
ctacatacaa	gtatcttgtg	ccgacatctt	atccattgct	gcccgtgatt	ctttccagag	3060
agtaagtcca	tttatttcta	aaggttgaaa	ttaataagaa	caagaatcca	aacaaataac	3120

2007-09-24 [58049-00035] Sequence Listing.ST25 agacagtaaa aaaaaaagat ttatgtggtt tgacaatatg ttgaaattgt ttttatattt	3180
aatgactagt atttatgcat tatatttata tgcaactcta aacatgcagt ttactggaga	3240
aacgtacacc gtgactctgg gaagactcga tgcaagaacg gcgaacctta ccggagctaa	3300
cacccaactc gtcggaccaa acgaggaatt ggcatcgcaa gtcgagaaat ttgcggcgaa	3360
agggttctcc gaaacggagc tagtcgcctt gttaggtgtt cacacggttg ggttttcgag	3420
atgtccgctt ttatgcgttc ccattttcat caatcccgcc cgggcctcca cgctgcaatg	3480
caactgtccg gtgagtcccg acgacaccgg gctggtgggc ctggacccca ctccgttgac	3540
gtgggaccaa agtttttact ccgacgtggc taacggacaa gggcttctgt tctccgacaa	3600
cgagctgatg aatagcaaca ccaccagcgc cgccgttagg aggtacaggg acgagatgga	3660
cgcttttctc gccgatttcg ccgccgccat ggtgaagatg agcctcctgc cgccgtcccc	3720
cggagtggag ctcgaaatcc gagaggtttg cagcgaggtg aatgccaaca cagttgcatc	3780
catgtgaagt tegtteecat egacateaat aaegtetgtg attetgtgaa agttttaete	3840
ggactgtgaa gaattttcac tttctgttgt ttctgaaata aaaaagattt ttttttatg	3900
tcctaacaaa acttgtatta ctgaataaaa tttataaatt tgtta	3945
<210> 2 <211> 110 <212> DNA <213> Ipomoea batatas	
tttccctttc aagttctcta tttaaggaag cctgagaagc cattaatcct catcatcagc	60
tegaceacte atttettett cataetteet ttgetgtgat aateateate	110
<210> 3 <211> 177 <212> DNA <213> Ipomoea batatas <400> 3	
<400> 3	
aaattaaatc tcagtttgct ttattatatt attatcaaca ataataattt aatactgatc	60
aaattaaatc tcagtttgct ttattatatt attatcaaca ataataattt aatactgatc gaagaacttt ccctttcaag ttctctattt aaggaagcct gagaagccat taatcctcat	60 120
gaagaacttt ccctttcaag ttctctattt aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttcat acttcctttg ctgtgataat catcatc <210> 4 <211> 306 <212> DNA <213> Ipomoea batatas	120
gaagaacttt ccctttcaag ttctctattt aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttcat acttcctttg ctgtgataat catcatc <210> 4 <211> 306 <212> DNA	120
gaagaacttt ccctttcaag ttctctattt aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttcat acttcctttg ctgtgataat catcatc <210> 4 <211> 306 <212> DNA <213> Ipomoea batatas <400> 4	120

2007-09-24 [58049-00035] Sequence Listing.ST25	
aattagaaca aattaaatct cagtttgctt tattatatta	180
atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt	240
aatceteate atcagetega ceaeteattt ettetteata etteetttge tgtgataate	300
atcatc	306
<210> 5 <211> 306	
<212> DNA <213> Ipomoea batatas	
<400> 5	
taaggtgttt tatcgtggca gcatgagtgc atgacaaacg catatattat tattaaaaca	60
aaatagtact ccaatcataa taaattatct tatattatat	120
aattagaaca aattaaatct cagtttgctt tattatatta	180
atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt	240
aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc	300
atcatc	306
<210> 6	
<211> 433 <212> DNA	
<213> Ipomoea batatas	
<213> Ipomoea batatas <400> 6	60
<213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg	60
<213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt	120
<213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat	120 180
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attattgc caacaattaa</pre>	120 180 240
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa</pre>	120 180 240 300
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga</pre>	120 180 240 300 360
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa</pre>	120 180 240 300
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga</pre>	120 180 240 300 360
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgtttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt cttcatactt cctttgctgt gataatcatc atc</pre>	120 180 240 300 360 420
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt cttcatactt cctttgctgt gataatcatc atc</pre>	120 180 240 300 360 420
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt cttcatactt cctttgctgt gataatcatc atc <210> 7 <211> 818</pre>	120 180 240 300 360 420
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt cttcatactt cctttgctgt gataatcatc atc <210> 7 <211> 818 <212> DNA <213> Ipomoea batatas <400> 7</pre>	120 180 240 300 360 420
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattetgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattetetat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtacteca atcataataa attatettat attatattge caacaattaa aaattcaaat tagaacaaat taaateteag tttgetttat tatattatta teaacaataa taatttaata etgategaag aacttteeet tteaagttet etatttaagg aageetgaga agecattaat eetecateate agetegacea eteatttett etteataett eetttgetgt gataatcate ate <210> 7 <211> 818 <212> DNA <213> Ipomoea batatas <400> 7 getteacgca eteaactagt eacatettte eaggeaaaat ttaetttet atgaatatga</pre>	120 180 240 300 360 420 433
<pre><213> Ipomoea batatas <400> 6 atggtgactt aaagggctga atccaacata tattctgaca tttaaaaatg ctaacgtacg gttagattag tataatgaaa taaagttaat cattctctat atttgatgat ggtaattagt atcatggtaa ggtgttttat cgtggcagca tgagtgcatg acaaacgcat atattattat taaaacaaaa tagtactcca atcataataa attatcttat attatattgc caacaattaa aaattcaaat tagaacaaat taaatctcag tttgctttat tatattatta tcaacaataa taatttaata ctgatcgaag aactttccct ttcaagttct ctatttaagg aagcctgaga agccattaat cctcatcatc agctcgacca ctcatttctt cttcatactt cctttgctgt gataatcatc atc <210> 7 <211> 818 <212> DNA <213> Ipomoea batatas <400> 7</pre>	120 180 240 300 360 420 433

2007-09-24 [5 tgctttagca gcaaaaataa gaatggtact				240
tgcatatagc acacttaaca ttttatattc	aaatatactt	taatttagtc	atgataatac	300
aactcaccta ctccattata gccgataata	caactcacct	agctactcca	ttatagtcca	360
acaatatcaa atgaataaaa tagtaatggt	gacttaaagg	gctgaatcca	acatatattc	420
tgacatttaa aaatgctaac gtacggttag	attagtataa	tgaaataaag	ttaatcattc	480
tctatatttg atgatggtaa ttagtatcat	ggtaaggtgt	tttatcgtgg	cagcatgagt	540
gcatgacaaa cgcatatatt attattaaaa	caaaatagta	ctccaatcat	aataaattat	600
cttatattat attgccaaca attaaaaatt	caaattagaa	caaattaaat	ctcagtttgc	660
tttattatat tattatcaac aataataatt	taatactgat	cgaagaactt	tccctttcaa	720
gttctctatt taaggaagcc tgagaagcca	ttaatcctca	tcatcagctc	gaccactcat	780
ttcttcttca tacttccttt gctgtgataa	tcatcatc			818
<210> 8 <211> 1199 <212> DNA <213> Ipomoea batatas <400> 8				
atgcagggtg aaagtaagat tgaatatact	gatactacaa	ttaactaatg	ataaagtata	60
acttttgtaa aaaatttgat ttttttttt	gatgaattca	tatactccaa	agattttcct	120
catttaatta aatttctatc ctcatgttga	acccattaat	cgaataattg	acatattaga	180
taaacttagc catcatatga catttgatca	tgattgatga	tttttaaaaa	ataaaaacaa	240
aattatgaaa gggtaatgaa atattttaaa	aaaattatgt	aaaccctgta	atctagtaat	300
ctgtacaata ataattttgt ttcaactaag	aggatgttgg	caaaagtata	attaaacttg	360
tgatcttcgt acaataatta tgcttcacgc	actcaactag	tcacatcttt	ccaggcaaaa	420
tttacttttc tatgaatatg agaagttcca	tctatggaaa	taacggatta	tttatctaat	480
tttcaaattc tatatatata gtctcgagtg	gaacaaaaat	agaactaatt	tgaacaaatc	540
aaagtctaag aaaataatac atgctttagc	agcaaaaata	agaatggtac	tatacttaat	600
cctcatcata gtcttcaacc ctgcatatag	cacacttaac	attttatatt	caaatatact	660
ttaatttagt catgataata caactcacct	actccattat	agccgataat	acaactcacc	720
tagctactcc attatagtcc aacaatatca	aatgaataaa	atagtaatgg	tgacttaaag	780
ggctgaatcc aacatatatt ctgacattta	aaaatgctaa	cgtacggtta	gattagtata	840
atgaaataaa gttaatcatt ctctatattt	gatgatggta	attagtatca	tggtaaggtg	900
ttttatcgtg gcagcatgag tgcatgacaa	acgcatatat	tattattaaa	acaaaatagt	960
actccaatca taataaatta tcttatatta	tattgccaac	aattaaaaat	tcaaattaga	1020

2007-09-24 [58049-00035] Sequence Listing.ST2 acaaattaaa tctcagtttg ctttattata ttattatcaa caataataat ttaatactg	
tcgaagaact ttccctttca agttctctat ttaaggaagc ctgagaagcc attaatcct	cc 1140
atcatcaget egaceaetea tttettette ataetteett tgetgtgata atcatcate	1199
<210> 9 <211> 1467 <212> DNA <213> Ipomoea batatas	
<pre><400> 9 ggctgtccgg aattctgtct ctctggacca gttttggcaa acaattttga aaccacact</pre>	t 60
atactactcc aaaaattatg aaatttttat ggtagcttct acacttatag aactacatg	gt 120
ataaaaaata ttgggtcaaa ataccttacc gatttttccc aaatattcac ggaacttac	et 180
gccagaatct accctgcttt ttcctttcac tattttcaca actataagca tatatgggd	ca 240
taaatatgac atgaacatgc atgaaccaat gcagggtgaa agtaagattg aatatactg	ga 300
tactacaatt aactaatgat aaagtataac ttttgtaaaa aatttgattt tttttttt	ga 360
tgaattcata tactccaaag attttcctca tttaattaaa tttctatcct catgttgaa	ac 420
ccattaatcg aataattgac atattagata aacttagcca tcatatgaca tttgatcat	g 480
attgatgatt tttaaaaaat aaaaacaaaa ttatgaaagg gtaatgaaat attttaaaa	aa 540
aattatgtaa accctgtaat ctagtaatct gtacaataat aattttgttt caactaaga	ag 600
gatgttggca aaagtataat taaacttgtg atcttcgtac aataattatg cttcacgca	ac 660
tcaactagtc acatctttcc aggcaaaatt tacttttcta tgaatatgag aagttccat	cc 720
tatggaaata acggattatt tatctaattt tcaaattcta tatatatagt ctcgagtgg	ga 780
acaaaaatag aactaatttg aacaaatcaa agtctaagaa aataatacat gctttagca	ag 840
caaaaataag aatggtacta tacttaatcc tcatcatagt cttcaaccct gcatatagc	ca 900
cacttaacat tttatattca aatatacttt aatttagtca tgataataca actcaccta	ac 960
tccattatag ccgataatac aactcaccta gctactccat tatagtccaa caatatcaa	aa 1020
tgaataaaat agtaatggtg acttaaaggg ctgaatccaa catatattct gacatttaa	aa 1080
aatgctaacg tacggttaga ttagtataat gaaataaagt taatcattct ctatattt	ga 1140
tgatggtaat tagtatcatg gtaaggtgtt ttatcgtggc agcatgagtg catgacaaa	ac 1200
gcatatatta ttattaaaac aaaatagtac tccaatcata ataaattatc ttatattat	a 1260
ttgccaacaa ttaaaaattc aaattagaac aaattaaatc tcagtttgct ttattatat	t 1320
attatcaaca ataataattt aatactgatc gaagaacttt ccctttcaag ttctctatt	t 1380
aaggaagcct gagaagccat taatcctcat catcagctcg accactcatt tcttcttca	at 1440
acttcctttg ctgtgataat catcatc	1467

<210> 10 <211> 1934

<212> DNA <213> Ipomoea batatas

<400> 10

ttgccatctc accacttcgt cttaaacaat ctaggatatt cttagatatt cttcatactc 60 aagteteaca ettgaaatea ateaagaete ttacaetaae aatteeteaa tataeeteat 120 aatatcatct ctacttaaac tagagagatt tccaactctc aattaatcac caaaggtaac 180 tctccaaata tccaaatqqa aqqtttcaac ttccaaacta ataccaaacc aaccqqacta 240 atcataatca tattcataat cataaattgt ttctaactgc ccctgtccag aaattacagt 300 tttgcgcagt ccgaaagatt gagccggtaa caatagttcc cgaactcttt ttcacttgaa 360 atttttatqq taqaacccta acttataqta cttqatatcc ataaaaaqtt ttqqtcacct 420 aggttcacga attaacacag aaaattacat ctttgccctt ggcagtgggc tgtccggaat 480 tctqtctctc tqqaccaqtt ttqqcaaaca attttqaaac cacacttata ctactccaaa 540 aattatgaaa tttttatggt agcttctaca cttatagaac tacatgtata aaaaatattg 600 ggtcaaaata ccttaccgat ttttcccaaa tattcacgga acttactgcc agaatctacc 660 720 ctgctttttc ctttcactat tttcacaact ataaqcatat atqqqcataa atatqacatq aacatgcatg aaccaatgca gggtgaaagt aagattgaat atactgatac tacaattaac 780 taatgataaa gtataacttt tgtaaaaaat ttgatttttt tttttgatga attcatatac 840 tccaaagatt ttcctcattt aattaaattt ctatcctcat gttgaaccca ttaatcgaat 900 aattgacata ttagataaac ttagccatca tatgacattt gatcatgatt gatgattttt 960 1020 ctgtaatcta gtaatctgta caataataat tttgtttcaa ctaagaggat gttggcaaaa 1080 gtataattaa acttgtgatc ttcgtacaat aattatgctt cacgcactca actagtcaca 1140 tctttccaqq caaaatttac ttttctatqa atatqaqaaq ttccatctat qqaaataacq 1200 gattatttat ctaattttca aattctatat atatagtctc gagtggaaca aaaatagaac 1260 taatttgaac aaatcaaagt ctaagaaaat aatacatgct ttagcagcaa aaataagaat 1320 qqtactatac ttaatcctca tcataqtctt caaccctqca tataqcacac ttaacatttt 1380 atattcaaat atactttaat ttagtcatga taatacaact cacctactcc attatagccg 1440 ataatacaac tcacctaqct actccattat aqtccaacaa tatcaaatqa ataaaataqt 1500 aatggtgact taaagggctg aatccaacat atattctgac atttaaaaaat gctaacgtac 1560 ggttagatta gtataatgaa ataaagttaa tcattctcta tatttgatga tggtaattag 1620 tatcatqqta aqqtqtttta tcqtqqcaqc atqaqtqcat qacaaacqca tatattatta 1680

2007-09-24 [58049-00035] Sequence Listing.ST25 ttaaaacaaa atagtactcc aatcataata aattatctta tattatattg ccaacaatta	1740
aaaattcaaa ttagaacaaa ttaaatctca gtttgcttta ttatattatt atcaacaata	1800
ataatttaat actgatcgaa gaactttccc tttcaagttc tctatttaag gaagcctgag	1860
aagccattaa teeteateat cagetegace acteatttet tetteataet teetttgetg	1920
tgataatcat catc	1934
<210> 11 <211> 2433 <212> DNA <213> Ipomoea batatas	
<400> 11 cctcatggag tattctcata actctcttca gtatgaatga atcatacaat acaacgcagc	60
qacqaataqa cttcqccctq aactaqacat acqacaacat aqccaccata cqqqaaaqqc	120
acttcaagct ctttatcccg taggctgcaa caacataacg acataacgac cactgggcaa	180
gggcatttac agccacccgt gggtcaatca aggtcctcct cactcacttt agaaactaag	240
ggtttgaaaa catgatettt eetteagttt ttettacaae aaateattea etttggacae	300
atttcacaat tgagtccaat acttaaaccg gctacttcat tagcccctga aggattttaa	360
aaaaaacttt cactgcccgc aggctcttca aacatctttt cctcattatc aagtgaggca	420
ttttcctcaa aagtaaggtt ttgacaacct ttatatcaaa atagcatacg tttttcaacg	480
taagtttcat aacatttact tgccatctca ccacttcgtc ttaaacaatc taggatattc	540
ttagatattc ttcatactca agtctcacac ttgaaatcaa tcaagactct tacactaaca	600
attecteaat ataceteata atateatete taettaaaet agagagattt eeaaetetea	660
attaatcacc aaaggtaact ctccaaatat ccaaatggaa ggtttcaact tccaaactaa	720
taccaaacca accggactaa tcataatcat attcataatc ataaattgtt tctaactgcc	780
cctgtccaga aattacagtt ttgcgcagtc cgaaagattg agccggtaac aatagttccc	840
gaactetttt teaettgaaa tttttatggt agaaceetaa ettatagtae ttgatateea	900
taaaaagttt tggtcaccta ggttcacgaa ttaacacaga aaattacatc tttgcccttg	960
gcagtgggct gtccggaatt ctgtctctct ggaccagttt tggcaaacaa ttttgaaacc	1020
acacttatac tactccaaaa attatgaaat ttttatggta gcttctacac ttatagaact	1080
acatgtataa aaaatattgg gtcaaaatac cttaccgatt tttcccaaat attcacggaa	1140
cttactgcca gaatctaccc tgctttttcc tttcactatt ttcacaacta taagcatata	1200
tgggcataaa tatgacatga acatgcatga accaatgcag ggtgaaagta agattgaata	1260
tactgatact acaattaact aatgataaag tataactttt gtaaaaaatt tgatttttt	1320
ttttgatgaa ttcatatact ccaaagattt tcctcattta attaaatttc tatcctcatg	1380

	_				
20 ttgaacccat taatcgaata	07-09-24 [58 attgacatat	_	-	_	1440
atcatgattg atgattttta	aaaaataaaa	acaaaattat	gaaagggtaa	tgaaatattt	1500
taaaaaaatt atgtaaaccc	tgtaatctag	taatctgtac	aataataatt	ttgtttcaac	1560
taagaggatg ttggcaaaag	tataattaaa	cttgtgatct	tcgtacaata	attatgcttc	1620
acgcactcaa ctagtcacat	ctttccaggc	aaaatttact	tttctatgaa	tatgagaagt	1680
tccatctatg gaaataacgg	attatttatc	taattttcaa	attctatata	tatagtctcg	1740
agtggaacaa aaatagaact	aatttgaaca	aatcaaagtc	taagaaaata	atacatgctt	1800
tagcagcaaa aataagaatg	gtactatact	taatcctcat	catagtcttc	aaccctgcat	1860
atagcacact taacatttta	tattcaaata	tactttaatt	tagtcatgat	aatacaactc	1920
acctactcca ttatagccga	taatacaact	cacctagcta	ctccattata	gtccaacaat	1980
atcaaatgaa taaaatagta	atggtgactt	aaagggctga	atccaacata	tattctgaca	2040
tttaaaaatg ctaacgtacg	gttagattag	tataatgaaa	taaagttaat	cattctctat	2100
atttgatgat ggtaattagt	atcatggtaa	ggtgttttat	cgtggcagca	tgagtgcatg	2160
acaaacgcat atattattat	taaaacaaaa	tagtactcca	atcataataa	attatcttat	2220
attatattgc caacaattaa	aaattcaaat	tagaacaaat	taaatctcag	tttgctttat	2280
tatattatta tcaacaataa	taatttaata	ctgatcgaag	aactttccct	ttcaagttct	2340
ctatttaagg aagcctgaga	agccattaat	cctcatcatc	agctcgacca	ctcatttctt	2400
cttcatactt cctttgctgt	gataatcatc	atc			2433
<210> 12 <211> 26 <212> DNA <213> Artificial					
<220> <223> GSP1 promoter					
<400> 12 ctgagccgag tgacaaagga	agccat				26
<210> 13 <211> 22 <212> DNA <213> Artificial					
<220> <223> AP1 promoter					
<400> 13 gtaatacgac tcactatagg	gc				22
<210> 14					
<211> 25		Page	9		

```
2007-09-24 [58049-00035] Sequence Listing.ST25
<212> DNA
<213> Artificial
<220>
<223> GSP2 promoter
<400> 14
cacagcaaag gaagtatgaa gaagc
                                                                       25
<210> 15
<211> 19
<212> DNA
<213> Artificial
<220>
<223> AP2 promoter
<400> 15
actatagggc acgcgtggt
                                                                       19
<210> 16
<211> 26
<212> DNA
<213> Artificial
<220>
<223> exon promoter
<400> 16
atggcttcct ttgtcactcg gctcag
                                                                       26
<210> 17
<211> 30
<212> DNA
<213> Artificial
<220>
<223> intron promoter
<400> 17
tcatcagctc gaccactcat ttcttcttca
                                                                       30
<210> 18
<211> 35
<212> DNA
<213> Artificial
<220>
<223> forward promoter for -2433 deletion promoter
<400> 18
gccaagcttg gtcctcatgg agtattctca taact
                                                                       35
<210> 19
<211> 33
<212> DNA
<213> Artificial
```

```
2007-09-24 [58049-00035] Sequence Listing.ST25
<220>
<223> forward primer for -1934 deletion promoter
<400> 19
gccaagcttt tgccatctca ccacttcgtc tta
                                                                      33
<210> 20
<211> 31
<212> DNA
<213> Artificial
<220>
<223> forward primer for -1467 deletion promoter
<400> 20
gccaagcttg gctgtccgga attctgtctc t
                                                                      31
<210> 21
<211> 33
<212>
      DNA
<213> Artificial
<220>
<223> forward primer for -1199 deletion promoter
gccaagctta tgcagggtga aagtaagatt gaa
                                                                      33
<210>
       22
<211> 26
<212> DNA
<213> Artificial
<220>
<223> forward primer for -818 deletion promoter
<400> 22
gccaagcttg cttcacgcac tcaact
                                                                      26
<210> 23
<211> 33
<212> DNA
<213> Artificial
      forward primer for -433 deletion promoter
<223>
<400> 23
gccaagctta tggtgactta aagggctgaa tcc
                                                                      33
<210> 24
<211>
      34
<212>
      DNA
      Artificial
<213>
<220>
<223> reverse primer for -2433, 1934, 1467, 1199, 818, 433, 366, 306,
       177 and 110 deletion promoter
                                      Page 11
```

2007-09-24 [58049-00035] Sequence Listing.ST25

<400> tcctcta	24 agag atgatgatta	tcacagcaaa ggaa	34
<210><211><212><212><213>	25 31 DNA Artificial		
<220> <223>	forward primer	for -366 deletion promoter	
<400> ttcctg	25 caga tagtataatg	aaataaagtt a	31
<210><211><211><212><213>	26 26 DNA Artificial		
<220> <223>	forward primer	for -306 deletion promoter	
<400> tttctgd	26 cagt aaggtgtttt	atcgtg	26
<210><211><212><212><213>	27 25 DNA Artificial		
<220> <223>	forward primer	for -177 deletion promoter	
<400> ttcctg	27 caga aattaaatct	cagtt	25
	28 24 DNA Artificial		
<220> <223>	forward primer	for -110 deletion promoter	
<400> ttcctgo	28 cagt ttccctttca	agtt	24
<210><211><212><212><213>	29 19 DNA Artificial		
<220> <223>	forward primer	for NPTII	
<400> gaggcta	29 attc ggctagatg		19

2007-09-24 [58049-00035] Sequence Listing.ST25

<210> 30
<211> 21
<212> DNA
<213> Artificial

<220>
<223> reverse primer for NPTII

<400> 30
atcgggagcg gcgataccgt a